

Panduit Pre-Configured Physical Infrastructure

VSPEX* 1 Cabinet, 1 Chassis Growth Solution



Overview

Panduit utilizes extensive converged infrastructure experience in providing the optimal physical infrastructure to support an integrated cloud deployment. Our validated designs include an appropriately-sized dynamic (shippable) cabinet, pre-labeled connectivity bundles, proper grounding, effective thermal and cable management. Panduit evaluates power, thermal, and connectivity requirements of each active component. From this, a balanced and scalable rack elevation is created, integrated port-to-port network map is established, CFD analysis is conducted, and proper load balancing is calculated.

Pre-assembled and kitted solutions provide significant time savings, reduced risk and lowest TCO throughout procurement, installation and upgrade phases. This converged solution features a pre-engineered layout that arrives ready for rapid and reliable deployment.

Technical Information

Connectivity for VSPEX* 1 Cabinet, 1 Chassis with expansion	2 switches (Cisco^ 5672UP)
	1 server chassis (UCS^ 5108)
	2 fabric interconnects (Cisco 6248UP)
	Dual disk controllers (EMC* VNX* 5200, 5400, or 5600)
Always follow active equipment manufacturer's recommended installation procedure. Do not ship Cisco UCS B-Series Servers installed in cabinet. Use original equipment packaging for shipment.	
No Disruption Expansion	Server expansion via unused blade slots or additional chassis
	Up to 5 total 3 RU DAE's and/or backup devices
Cabinet	600 x 1200 42 RU on dynamic shippable shock pallet
	79.8"H x 23.6"W x 48.0"D (2026mm x 600mm x 1219mm)
	Packaged cabinet height: 85 in. (219 cm)
Detailed Installation Guide	Step-by-step assembly
	Front and rear rack elevations
	Port-to-port mapping by device
	Labeled cables grouped by device with specific, easy to follow guide



Active equipment not included. Image may not be representative of actual equipment elevation.

Other VM Solutions Available

VSPEX* 1 Cabinet, 1 Chassis Solution for Cisco in 600 x 1200 Dynamic Cabinet	CQSE1679
VSPEX* 1 Cabinet, 2 Chassis Solution for Cisco in 600 x 1200 Dynamic Cabinet	CQSE2679
VSPEX* 1 Cabinet, 1 Chassis MDS Solution for Cisco in 600 x 1200 Dynamic Cabinet	CQSE1GM679

These solutions can be ordered through EMC* Technology Connect – Select (<http://www.emc.com/select>)

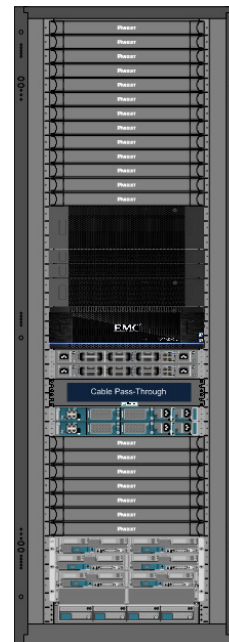
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Pre-Configured Physical Infrastructure for VSPEX* 1 Cabinet, 1 Chassis Growth

Key Features and Benefits

Dynamic cabinet	Allows for shipment of installed equipment	Single cabinet
		600 x 1200 – 42 RU
		Side panels, casters, shock pallet, and ramp
Always follow equipment manufacturer's recommended installation procedure. Do not ship Cisco® UCS® B-Series Servers installed in cabinet. Use original equipment packaging for shipment.		
Connectivity package	Port-to-port labeling reduces installation time while following industry best practices for network device connectivity.	Chassis to Fabric Interconnects, and Switch to Switch (10GbE Twinax)
		Data Mover to Switches, Switch Uplinks to Patch Panel (10GbE LC Fiber)
		Disk Controllers to Switch – FC (10GbE LC Fiber)
		Fabric interconnects to switches (10GbE Twinax)
		Unshielded copper Fabric Interconnect cabling (L1-L1/L2-L2), Device Management to Patch Panel (Category 6)
Does not include EMC supplied interconnect cables.		
Thermal solutions	Thermal analysis and testing to provide a robust operating margin. Thermal ducting panels included when required to ensure improved airflow to the switch for optimal thermal temperatures and promote hot/cold aisle segregation.	Validated Thermal Solution
		Tool-less blanking panels included to maintain cold aisle containment
Customer patch panel	Allows flexible connectivity of equipment to customer network.	(1) 48-port panel
Refer to patch panel section below in recommended accessories		
Grounding and bonding	Features components to ensure best practices for grounding equipment; each system includes cabinet to facility ground and paint piercing grounding cage nuts from equipment to cabinet.	(4) 6AWG Ground cables for switches
		(1) ESD Wrist Strap for End User
Cable management	Manages cables away from equipment airflow and provides proper bend radius at each rack unit, ensuring cable routing and management best practices.	Fingers at every RU
		D-Ring Cable Managers at Switches



Panduit part number:
CQSE1G679
Active gear not included.

Recommended Accessories (Ordered Separately)

Customer Patch Panel Components – A network interface panel is included in each Panduit Pre-Configured Physical Infrastructure Solution configuration to facilitate connection to the existing data center infrastructure. Panduit offers a variety of QuickNet™ Patch Panel accessories to allow connection of multiple media types (copper and fiber) in a variety of termination methods (pre-terminated cassettes, Mini-Com® Modules and/or field termination) providing scalability and flexibility for changing network requirements. See more details on QuickNet™ Patch Panels at www.panduit.com.

Power Distribution Units (PDU) – Panduit vertical power strips offer a convenient way to distribute power to active equipment within racks and cabinets. Panduit recommends the following PDU options which are sized to support this configuration with full redundancy:

Q1N2B1L2N30AHA0	USA	Network PDU, Vert, 30A, Single phase, L6-30P Plug, 208V, (24)C-13/(6)C-19 Rec	Qty. 4
Q1N2B3J2M30AHA0	Europe/Korea	Network PDU, Vert, 32A, Single phase, IEC 60309, 230V, (24)C-13/(6)C-19 Rec	Qty. 4
Q1N2B1P3N30AHA0	USA	Network PDU, Vert, 30A, 3-phase WYE, L21-30P Plug, 208V, (24)C-13/(6)C-19 Rec	Qty. 2
Q1N2B2P6M30AHA0	Europe/Korea	Network PDU, Vert, 32A, 3-phase WYE, IEC 60309 Plug, 230V, (24)C-13/(6)C-19 Rec	Qty. 2
QZ1B1N3BN30P1J	Japan	Network PDU, Vert, 30A, 3-phase delta, L15-30P Plug, 200V, (24)C-13/(6)C-19 Rec	Qty. 2

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